

ICT & FET & FSTP IN HORIZON 2020

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Horizon 2020 Programme Committee Member (PC)

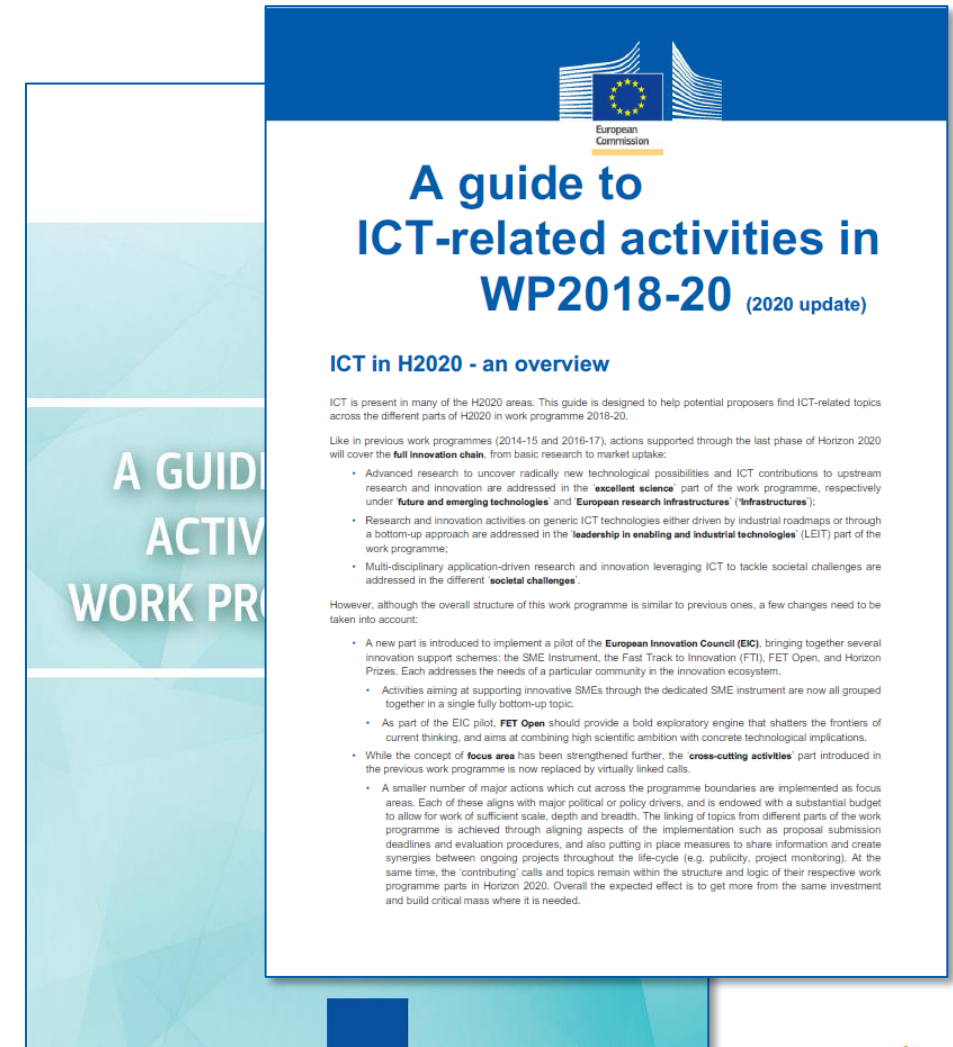
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Channels for H2020 ICT Funding

- H2020 projects in LEIT (eg. Research and Innovation Actions, Innovation Actions, SME Instrument, FTI projects, Prizes)
- H2020 projects in Societal Challenges (same)
- H2020 projects in Excellent Science (eg. Marie Curie Projects, FET, EIC, Infrastructures)
- ECSEL JTI, AAL, ERA-NETs
- Calls for Third Parties / Expressions of Interest through large initiatives – also known as Cascading Grants (eg. PPP projects, Large Scale Pilots, Smart Anything Everywhere, I4MS, IoT EU platforms, FET Flagships etc.)

Guide to ICT-related activities in WP

- **Comprehensive coverage of the three H2020 pillars**
- **Detailed list of calls and topics**
- **Available on H2020 website**



Upcoming calls in ICT

- ICT Call - 2020 April 22
 - Artificial Intelligence & Technologies for Digitising European Industry and Economy – robotics, AI photonics
 - European Data Infrastructure: Cloud computing
 - 5G: beyond 5G + verticals
 - Next Generation Internet: inclusive
 - International: Africa + EU DIH
- Digital Transformation Call - 2020 April 22
 - Digital Innovation Hubs: photonics
 - Platforms: Rural economies, Smart Hospitals

Upcoming calls in FET / EIC

- FET Open - 2020 May 13
 - Any multidisciplinary topic
- FET Innovation Launchpad – 2020 Oct 14
- FETPROACT / EIC – opening / deadline will change
 - Neuromorphic computing, environmental intelligence, virtual social experience, nanometrology, digital twins in life science
- FET HPC – 2020 April 22
 - International Co-operation

Public Private Partnerships in ICT

Joint Technology Initiative

- **ECSEL** (Electronic Components and Systems for European Leadership)
 - ✓ **1,215 b€ from EU**
 - ✓ **3,6 b€** (out of which 1,2 b€ from Member States) **from industry partners and other sources**

Contractual PPPs

- **5G**
- **Photonics**
- **Robotics**
- **High Performance Computing**
- **Factories of the Future**
- **Green Vehicles**
- **Big Data**
- **Cyber-security**

Partnerships+ in Horizon Europe

candidate digital partnerships include

- Key Digital Technologies
- High Performance Computing
- Smart Networks and Services
- Artificial Intelligence/data/robotics
- Photonics
- Made in Europe
- Cybersecurity (HE + DEP)?

Digital Centric Partnerships

- **Key Digital Technologies** (proposed as institutionalised) addressing the technological challenges and emerging opportunities for Europe on key digital technologies. This include microelectronics, embedded software and smart microsystems enlarged with elements of photonics, higher-layers of software and complex system integration
- **High Performance Computing** (proposed as institutionalised) to develop and deploy highly competitive and innovative HPC ecosystems in Europe. It will build on the experience gained in EuroHPC for achieving world-class exascale and post-exascale (HPC) technologies in Europe, including their integration with Quantum computing
- **Smart Networks and Services** (proposed as institutionalised) to strengthen the position of the European industry in the global race on digital connectivity infrastructures including "5G and beyond" and later "6G" network systems and associated services
- **Artificial Intelligence, data and robotics** (proposed as co-programmed) with a strong socio-economic transformational potential with impact in sectors like health, manufacturing, ship-building, construction, service industries and farming, etc.
- **Photonics**(proposed as co-programmed) with a strong and growing impact on a broad variety of end user industries, developing next-generation photonics components and systems fostering synergies and coordination amongst research and industrial actors.

Digital Transformation Partnerships

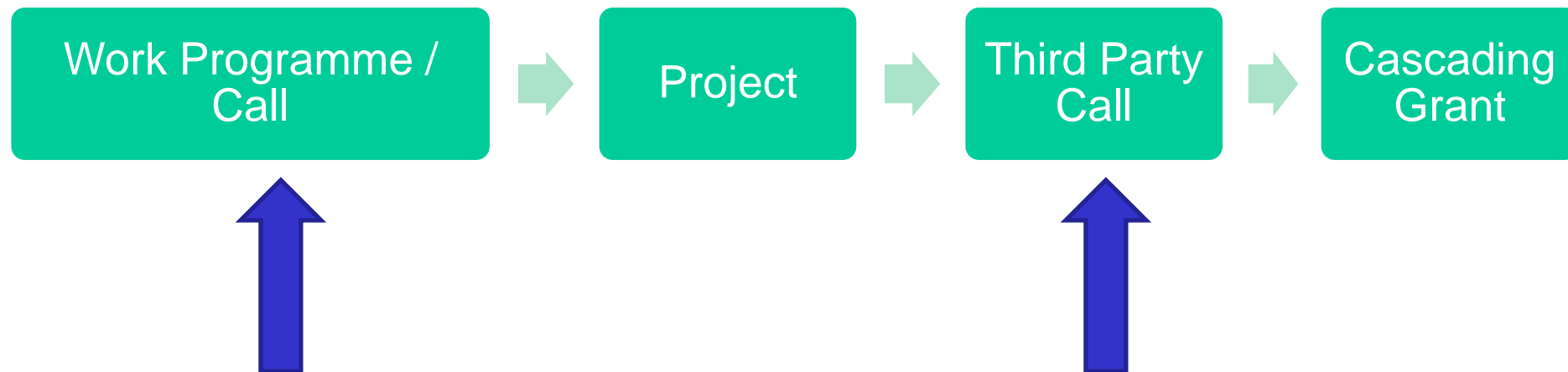
- **Innovative Health Initiative:** collaborative platform bringing the pharmaceuticals, diagnostics, medical devices, imaging and digital sectors together for precompetitive R&I in areas of unmet public health need, to accelerate the development and uptake of people-centred health care innovations.
- **Large-scale innovation and transformation of health systems in a digital and ageing society:** improving health and care models in an ageing, data-driven and digital society, shifting to holistic health promotion and person-centred care approaches through health policy and health systems research.
- **Made in Europe:** Towards a competitive discrete manufacturing industry with a world-leading reduction of the environmental footprint whilst guaranteeing the highest level of well-being for workers, consumers and society.
- **Mobility and Safety for Automated Road Transport:** long-term framework to the strategic planning of research and pre-deployment programmes for connected and automated driving on roads at EU and national levels in a systemic approach (vehicle, interactions, infrastructure, technical and non-technical enablers and societal impact)
- **Batteries:** Towards a competitive European industrial battery value chain: development of a world-class European R&I system on batteries, with a view towards European industrial leadership. Develop a coherent strategic programme, in cooperation with industry and research community, substantially contributing to fulfilling the Paris Agreement, and enhance the competitiveness of current and emerging European industries along the battery value chain.
- **Clean Energy Transition:** respond to the call for decarbonisation in medium-and long-term in a holistic way, synthesizing all fragmented actions to allow for greater integration of relevant research & innovation areas and provide greater impact.

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NEMZETI KUTATÁSI,
FEJLESZTÉSI ÉS
INNOVÁCIÓS HIVATAL

Channels for H2020 ICT Funding Third Party Calls



EUROPEAN AI-ON-DEMAND PLATFORM



Central access point:

- integrating tools and resources
- offering solutions and support to all users of AI to integrate such technology into application, products and services

THE NGI INITIATIVE: AN INTERNET OF HUMANS

RESILIENT. TRUSTWORTHY. SUSTAINABLE.

OPEN CALLS: <https://www.ngi.eu/opencalls/>

The **Next Generation Internet (NGI) initiative**, launched by the European Commission in the autumn of 2016, aims to shape the future internet as an interoperable platform ecosystem that embodies the values that Europe holds dear

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I4MS in a Nutshell

I4MS, ICT Innovation for Manufacturing SMEs, is a European initiative supporting manufacturing SMEs and mid-caps in the widespread use of information and communication technologies (ICT) in their business operations.

Under I4MS, SMEs can apply for **technological** and **financial support to conduct small experiments allowing them to test digital innovations** in their business via open calls. The I4MS project is now in its third phase with each phase having complementary objectives.



SmartAnythingEverywhere



Horizon 2020
Programme

European Initiative Smart Anything Everywhere



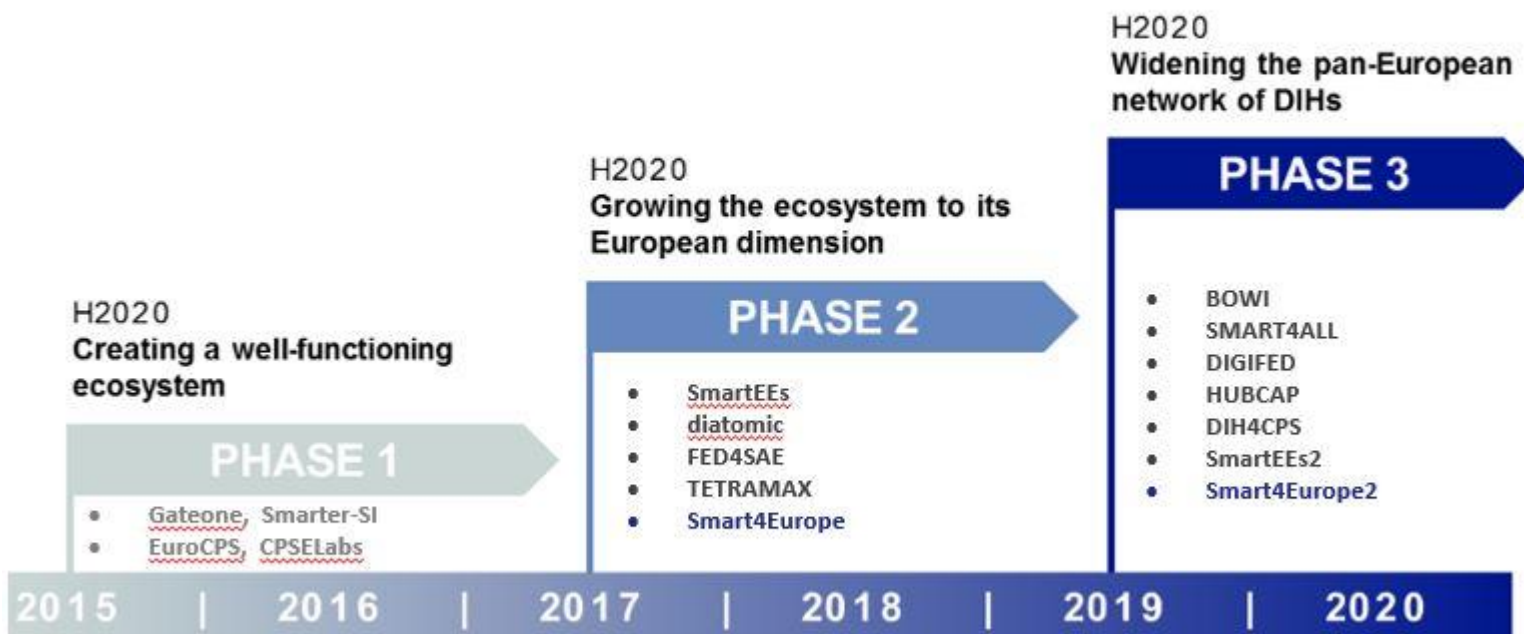
SAE CLUSTER PROJECTS

9 cluster projects for supporting “smart everywhere” vision.

[READ MORE](#)



Evolution of the SAE Initiative



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ICT IN H2020

TOOLS

ICT NCP NETWORK

ICT NCP NETWORK

Your Worldwide ICT Support Network

Ideal-ist, a network of National Contact Points, helps companies and research organisations worldwide with the European Commission's research programme Horizon 2020.

[READ MORE](#)



Topic Tree



Partner Search



Toolbox



Pre-proposal Check



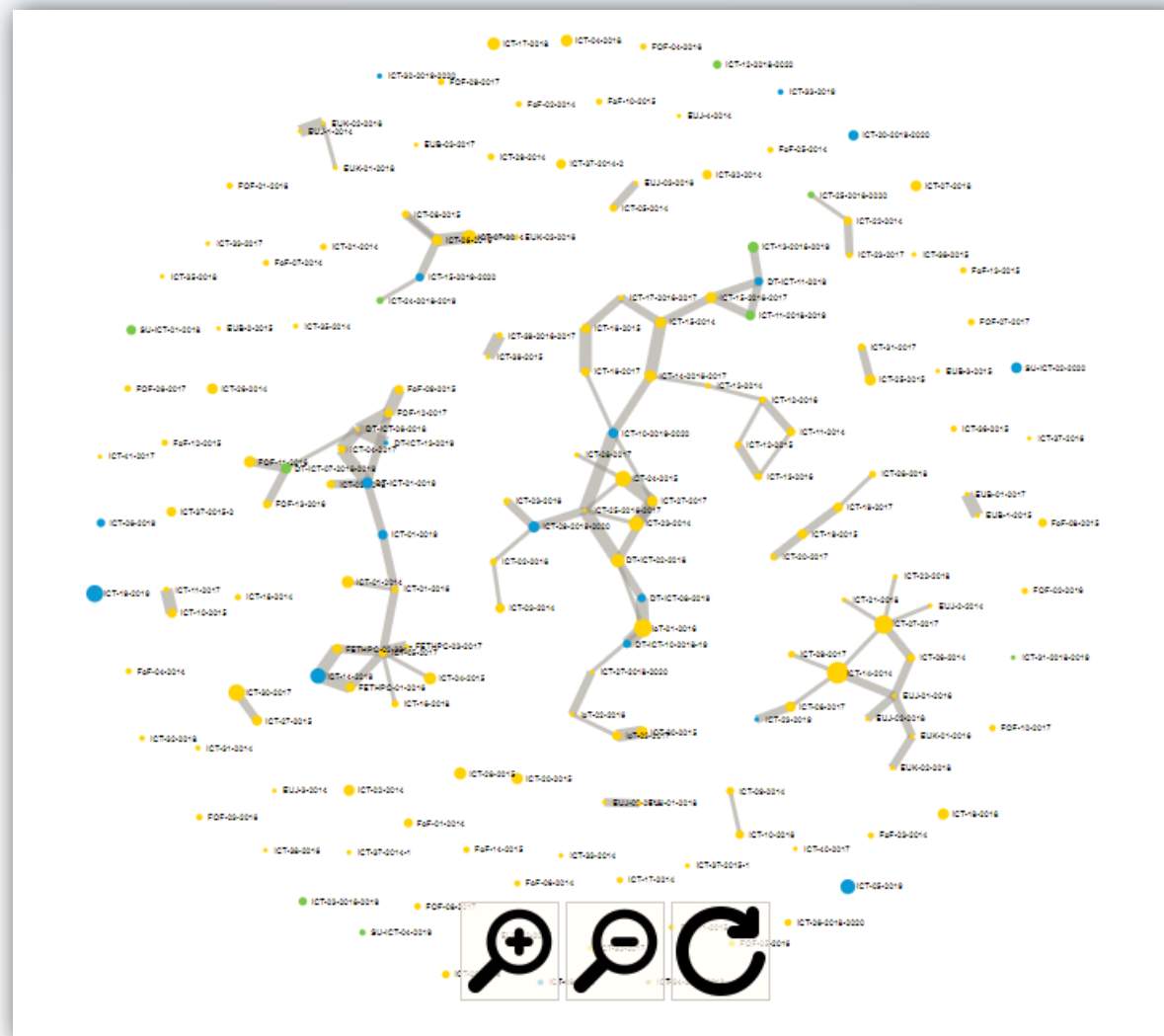
How are call topics linked?

How have these areas evolved over the years?

What is the new focus this year?



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 645216



ICT 2020

1-3 Dec 2020

Cologne, Germany

**INFORMATION
BROKERAGE
CONSORTIUM BUILDING
EXHIBITION**



Web:

Brokerage: <https://ict2020.ideal-ist.eu/> (opening soon)

Twitter: [@DSMeu](https://twitter.com/DSMeu)

SAVE THE DATE

VIRTUAL AGORA



Register



Create a profile



Share cooperation offers

- Project ideas
- Expertise
- Requests



Find & contact partners



A service offered by:
the network of ICT
National Contact Points

AI & Robotics in Horizon 2020
26 November 2019

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Artificial Intelligence & Robotics
Face2Face virtual agora

26 November 2019
AI & Robotics in Horizon 2020

Home How it works

As stated in the communication from the European Commission on [Artificial Intelligence for Europe](#) and the [Coordinated Action Plan](#) between the European Commission and the Member States, while Europe has undeniable strengths with its many leading research centres, efforts are scattered.

To ensure European strategic autonomy in such critical technology as AI, underpinning most of our future professional and private activities, with huge potential socio-economic impact, it is essential to reinforce and build on Europe's assets in AI, including its world-class researcher community, in order to stay at the forefront of AI developments.

Therefore joining forces will be crucial to be competitive at international level. The European Commission has published a series of calls in the area of Artificial Intelligence and Robotics in Work Programme 2020. The objective is to foster cooperation among the best research teams, industrial actors, and user organisations across Europe.

This [Face2Face Virtual Agora](#) is brought to you by [Ideal-ist](#), the network of [National Contact Points](#) for information and communication technologies in Horizon 2020.

The [Face2Face Virtual Agora](#) offers a unique networking facility for all actors in the AI field!

Why should you register?

- build quality partnerships for participating in the upcoming Horizon 2020 AI & Robotics call
- facilitate the setup of project consortia for Horizon 2020 calls
- discuss and develop new project ideas on AI at international level
- acquire new cross-border contacts and initiate collaborations
- promote your research expertise, technologies and know-how
- initiate requests for complementary expertise needed for your project proposal

Virtual Agora topics

The current edition of the virtual agora addresses the following Horizon 2020 topics:

Register now
Open until 26 November 2020

ORGANISED BY

b2match

ai-h2020.b2match.io

ICT Proposers' Day

19-20 Sep 2019

Helsinki, Finland

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EXHIBITION**



Web: <https://ec.europa.eu/digital-single-market/en/news/digital-excellence-forum-ict-proposers-day-2019>

Brokerage: <https://ict2019.ideal-ist.eu/>

Twitter: [@DSMeu](#) and [#ICTPropDay](#)



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**Thank you
for your attention!**